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mIL10	19	MPGSALLCCLLLLTGMRISRGQYSREDNNCTHFPVGQSHMLLELR TAF	1
hIL10			
BCRFI		MHSSALLCCLVLLTGVRASPGQGTQSENSTHFPGNL PNMRLRDAF	
		MERRLVTLQCLVLL--YLAPECGGTD---QCDNFPQ-----MLRDLRDAF	30
		SQVKTFFQTKDQLDNILLTDSLMMQDFKGYLGCQALSEMIQFYLVEMPQAEKHGPEIKEHLNSLG	
		SRVKTFFQMKDQLDNILLKESLLEDFKGYLGCQALSEMIQFYLVEMPQAEQDPDIKAHVNSLG	
		SRVKTFFQTKDEVNDNILLKESLLEDFKGYLGCQALSEMIQFYLVEMPQAEQDPPEAKDHYNSLG	31
		EKLKTLRMRLRRCHRFPCENKSKAVEQVKSDFNKLQDQGVYKAMNEFDIFINCI EAYMMIKMKS	95
		ENLKTLLRLRRCHRFPCENKSKAVEQVKNAFNKLQEKGIYKAMSEFDIFINYIEAYMTMKIRN	
		ENLKTLLRLRRCHRFPCENKSKAVEQIKNAFNKLQEKGIYKAMSEFDIFINYIEAYMTIKAR	96
			160

Comparison of the predicted amino acid sequences of mIL-10, hIL-10, and BCRFI. Amino acid sequence identities are indicated by vertical lines.

Fig. 1



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COOH TERMINAL PEPTIDE SEQUENCES OF IL-10 INCLUDING
9 AMINO ACIDS OF PORCINE, HUMAN and VIRUS PROTEINS.

PORCINE IL-10		*		*		*														
PIT	-	A	-	Y	-	M	-	T	-	M	-	K	-	M	-	R	-	K	-	N
HUMAN IL-10				*				*				*								
IT 9302	-	A	-	Y	-	M	-	T	-	M	-	K	-	I	-	R	-	N		
BCRFI IL-10				*				*				*								
VIT	-	A	-	Y	-	M	-	T	-	I	-	K	-	A	-	R	-			

Aminoacids marked with * represent key position for
receptor binding and are evolutionary well conserved.
Compare the IL-10 aminoacid sequence from mouse below.

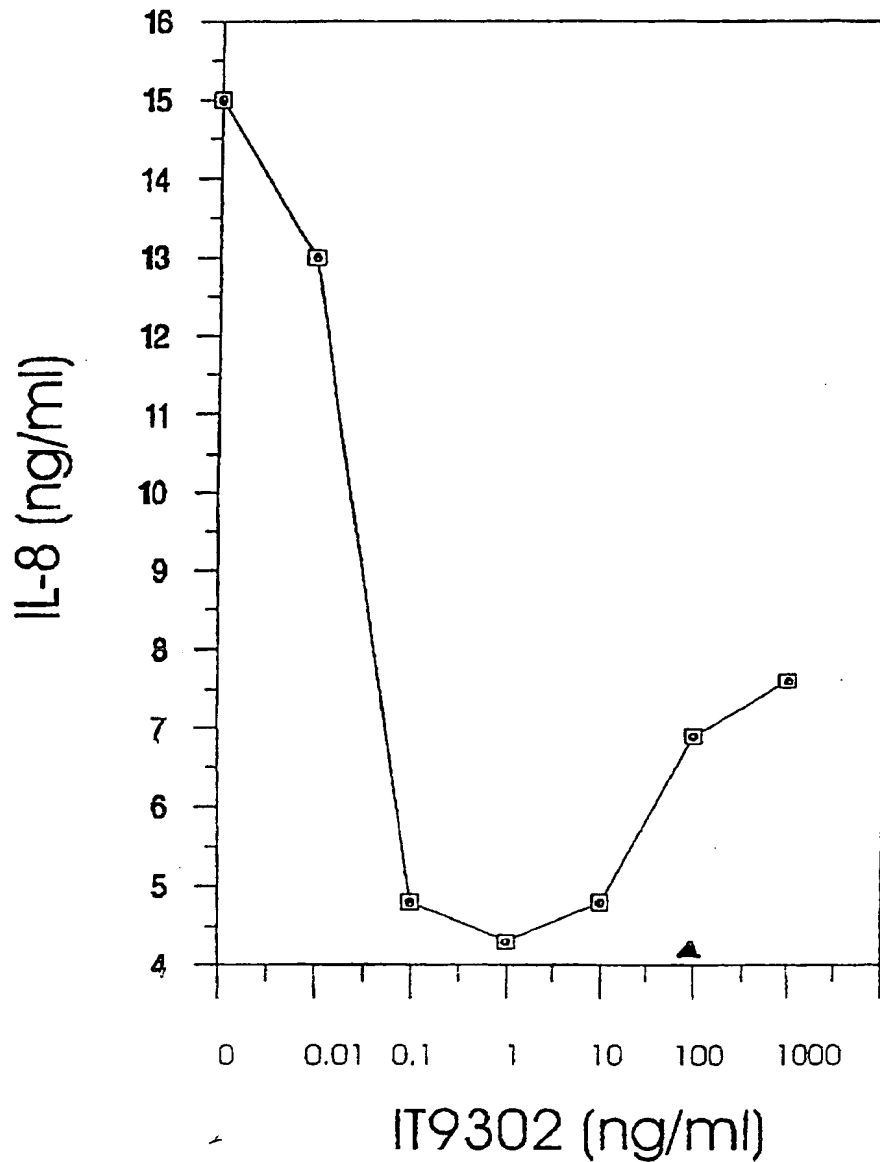
MOUSE IL-10								*												
MIT	-	A	-	Y	-	M	-	M	-	I	-	K	-	M	-	K	-	S		

This sequence is lacking the homology to the important
amino acids.

Fig. 2



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IT9302 inhibits spontaneous IL-8 production by purified cultured monocytes. (▲) Indicates the level of IL-8 when using rh IL-10 (100 ng/ml).

Fig. 3



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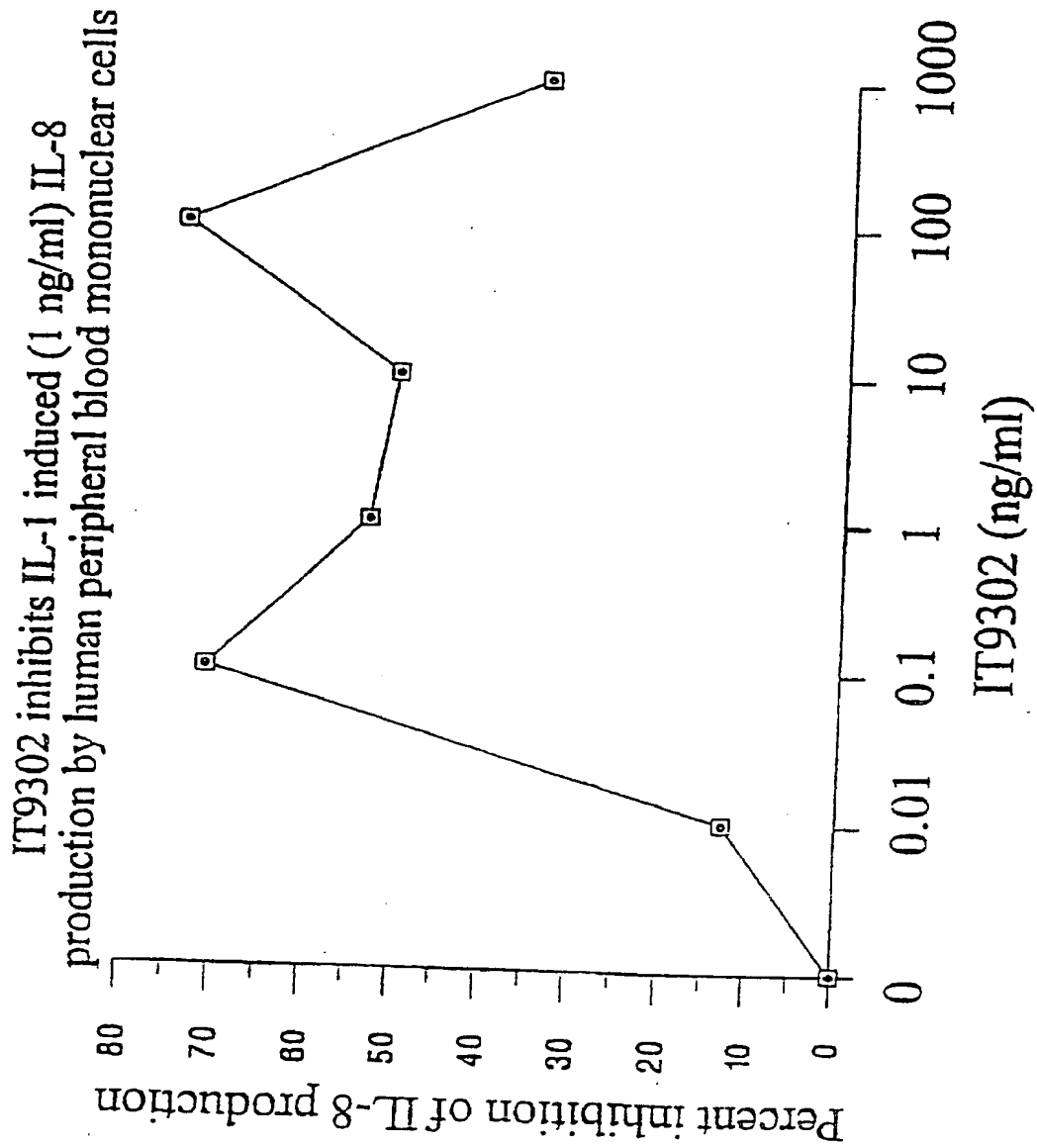


Fig. 4



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IT9302 stimulated human monocytes

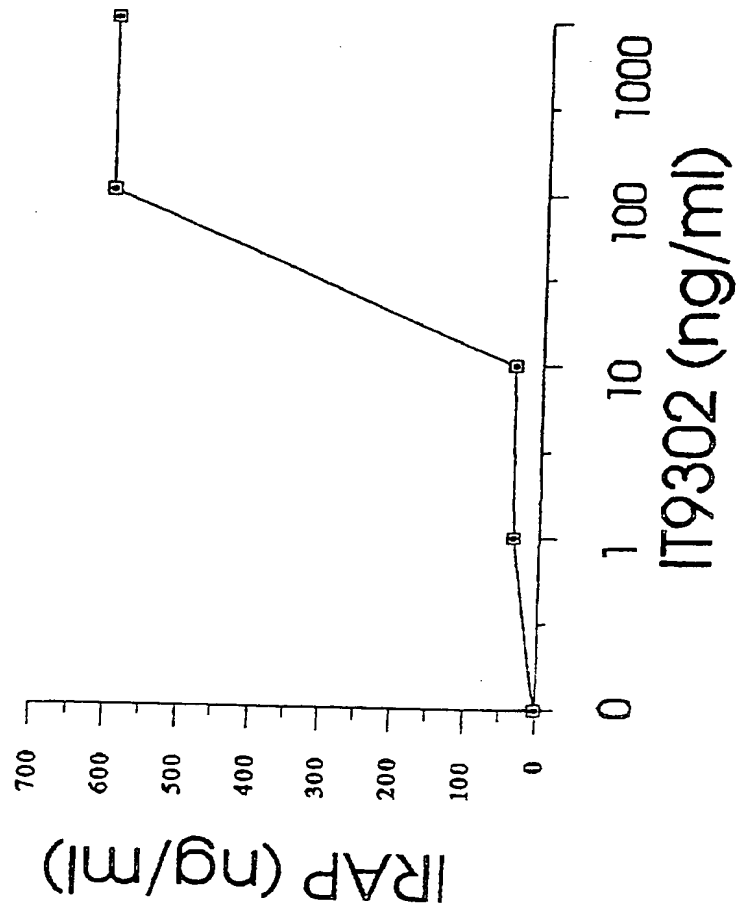


Fig. 5



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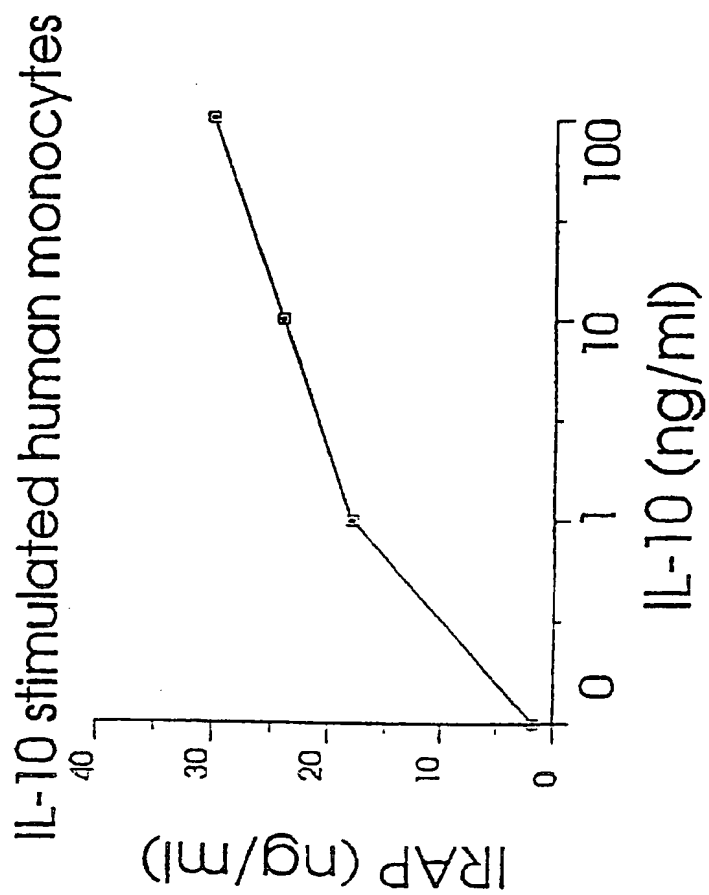


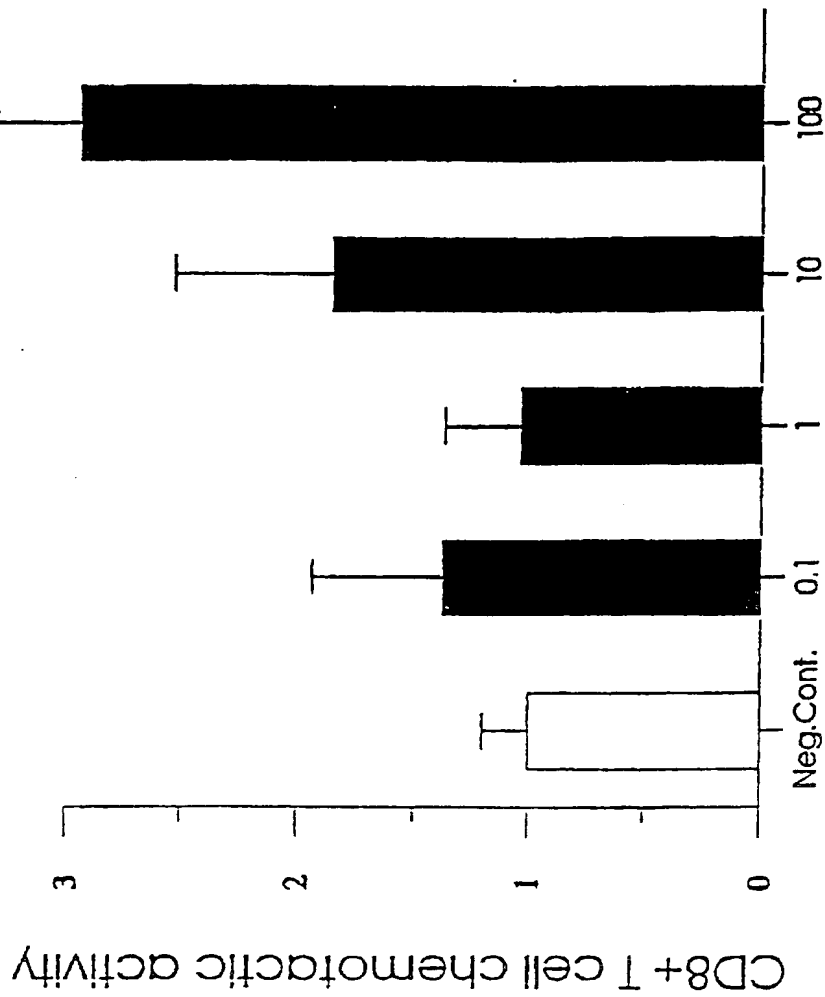
Fig. 6



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Chemotactic activity of IT9302
on CD8+ T cells



IT9302 (ng/ml)

Fig. 7



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Desensitization of CD8+ T cells by
IT9302, resulting in unresponsiveness
of CD8+ T cells towards IL-10 (10 ng/ml) induced chemotaxis

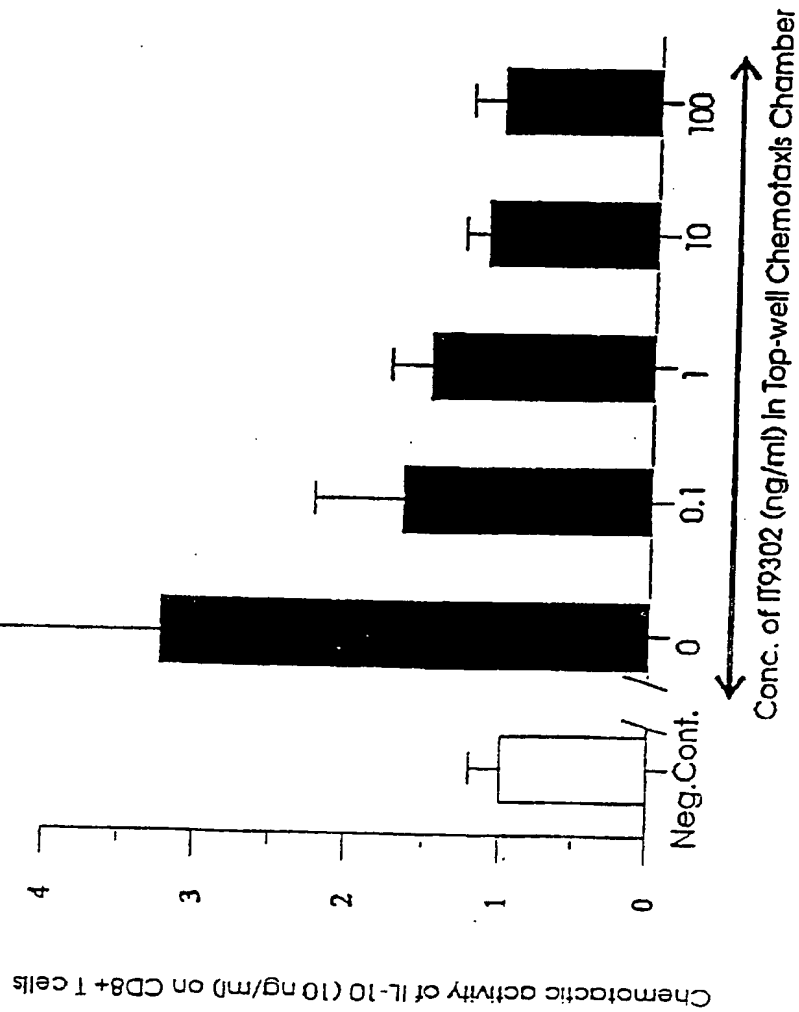


Fig. 8



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Suppression of IL-8 activity by IT9302

Effect of IT9302 on IL-8 (10 ng/ml) mediated chemotaxis.

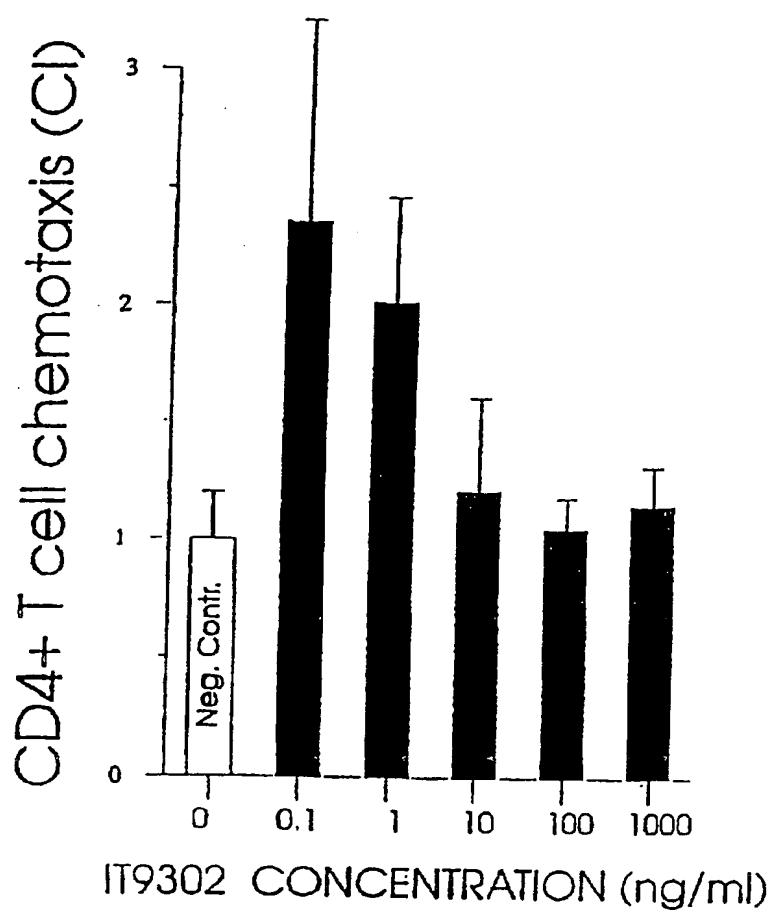


Fig. 9



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IT9302 inhibits MCAF/MCP-1
induced monocyte chemotaxis

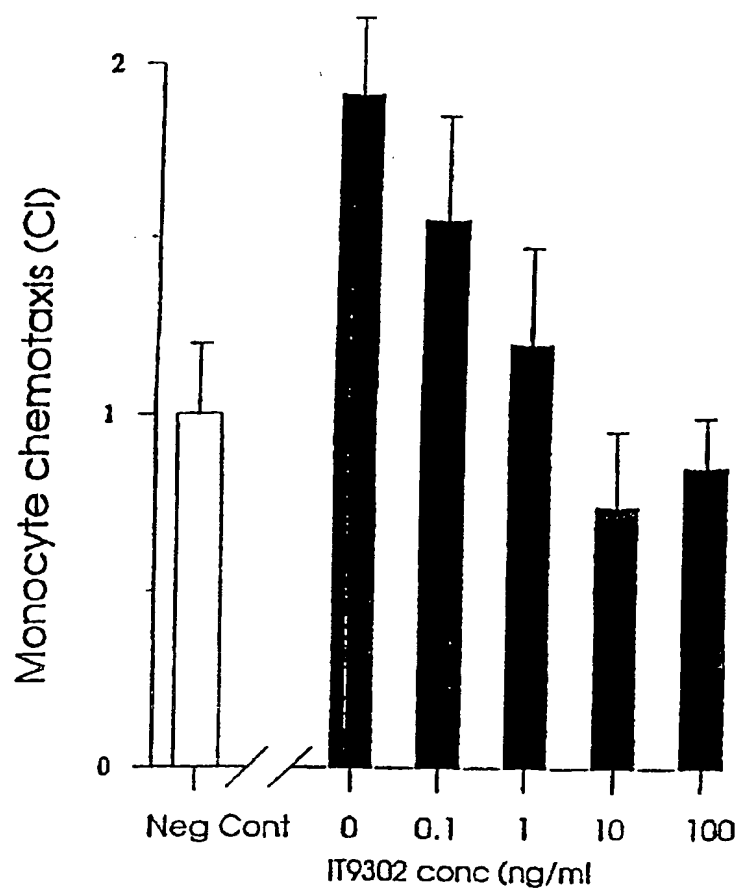


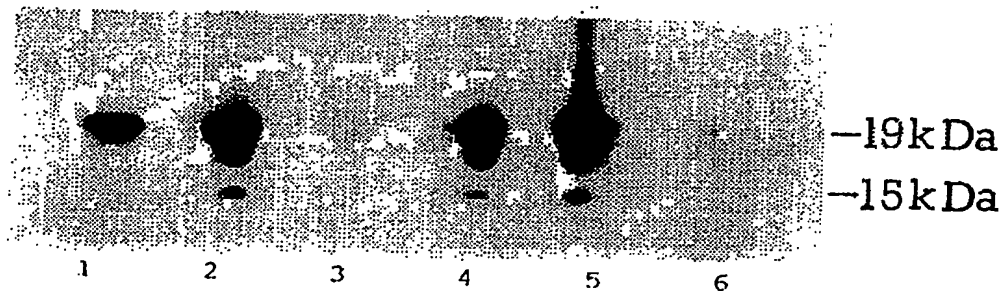
Fig. 10



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ECL-Western Blotting of CD4+ T cell cytosolic proteins using a goat anti-human IL-4 antibody.



Stimulation for 3 days with:

1. Control
2. mon.anti-IL-8 antibody WS.4 10 μ g/ml,
3. rIL-8 100 ng/ml,
4. rIL-10 100 ng/ml,
5. IT9302 10 ng/ml,
6. rIFN gamma 10 ng/ml.

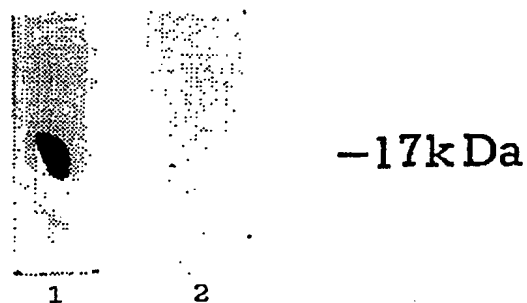
Fig. 11



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ECL-Western Blotting of Human Mixed lymphocyte culture cytosolic proteins using a rabbit anti-human TNF- α antibody.



Stimulation for 24 hours with:

1. Control
2. IT9302 10 ng/ml

Fig. 12



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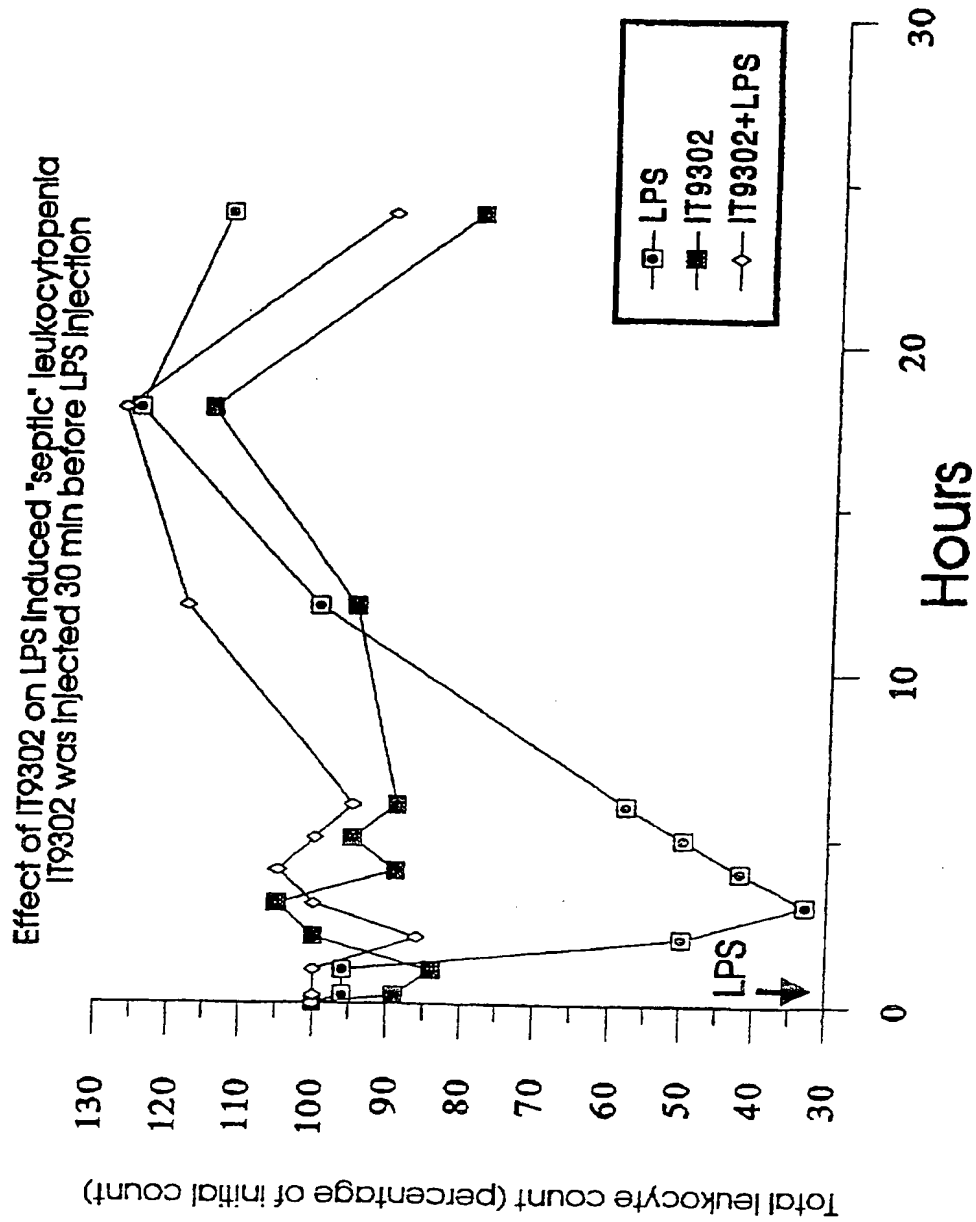


Fig. 13

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Leukocyte count in peripheral blood (rabbits)
after induction of acute pancreatitis (5% bile acid)

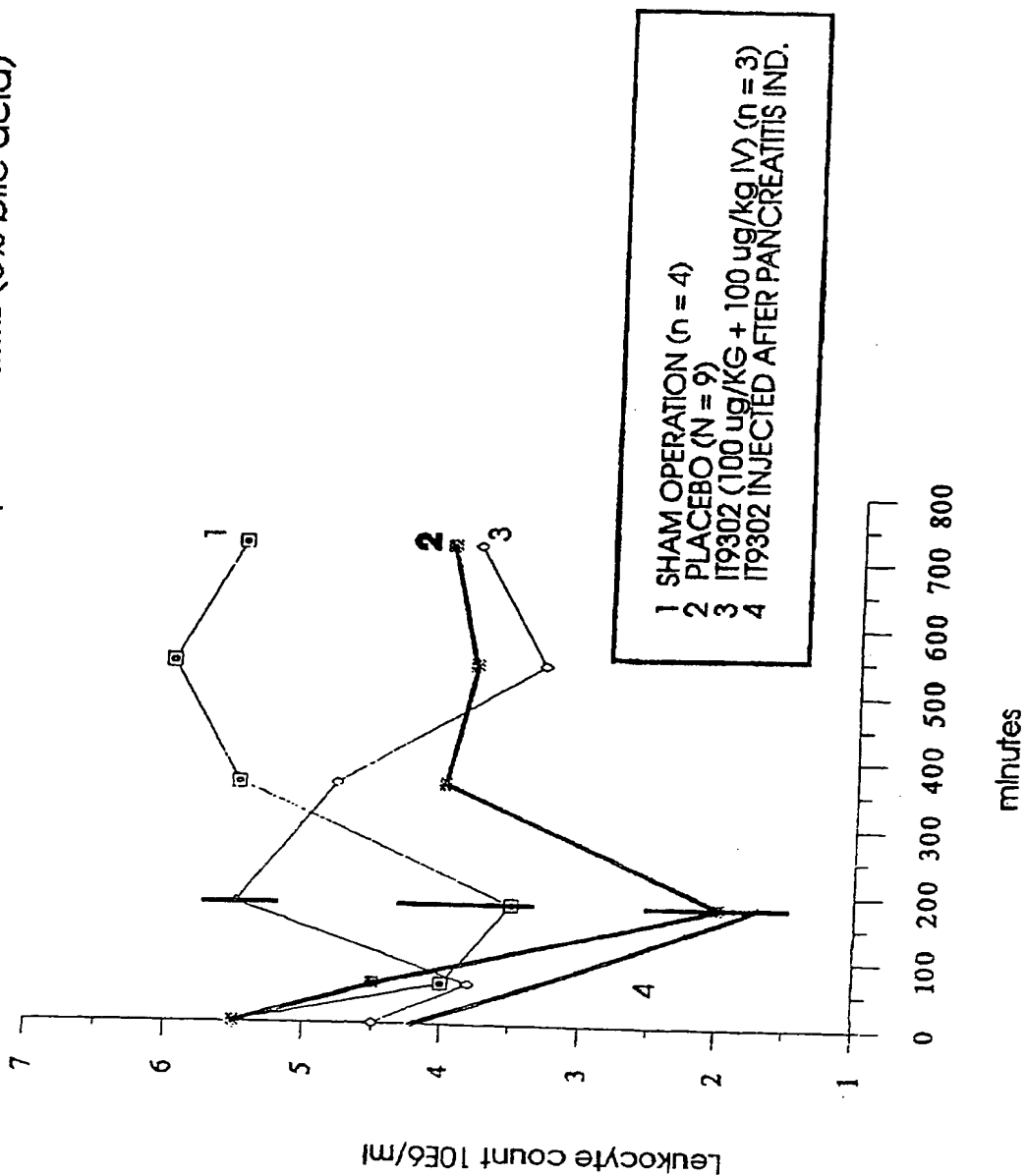


Fig. 14